SANYO

SANYO

4 CHANNEL STEREO PRE AMPLIFIER DCC 3001 SERVICE MANUAL

SPECIFICATIONS

MONITOR AMPLIFIER SECTION

Continuous Power Output:	
Amplifier load at 8 ohms (1 kHz, both channel driven) (1 kHz, each channel driven)	1 W/1 W
Total Harmonic Distortion: (At Rated Power Output)	Less than 0.05%
Power Bandwidth: (IHF)	DC - 300 kHz (at 0.1% T.H.D.)
Frequency Response:	DC - 1 MHz (+0 dB ~ −1 dB)
Output Terminal/Matching Imp.:	
Monitor Speaker	8 ohms
Damping Factor:	More than 20 (1 kHz, 8 ohms)
Residual Hum and Noise:	0.2 mV (at 8 ohms)
Slew Rate:	15 V/μs

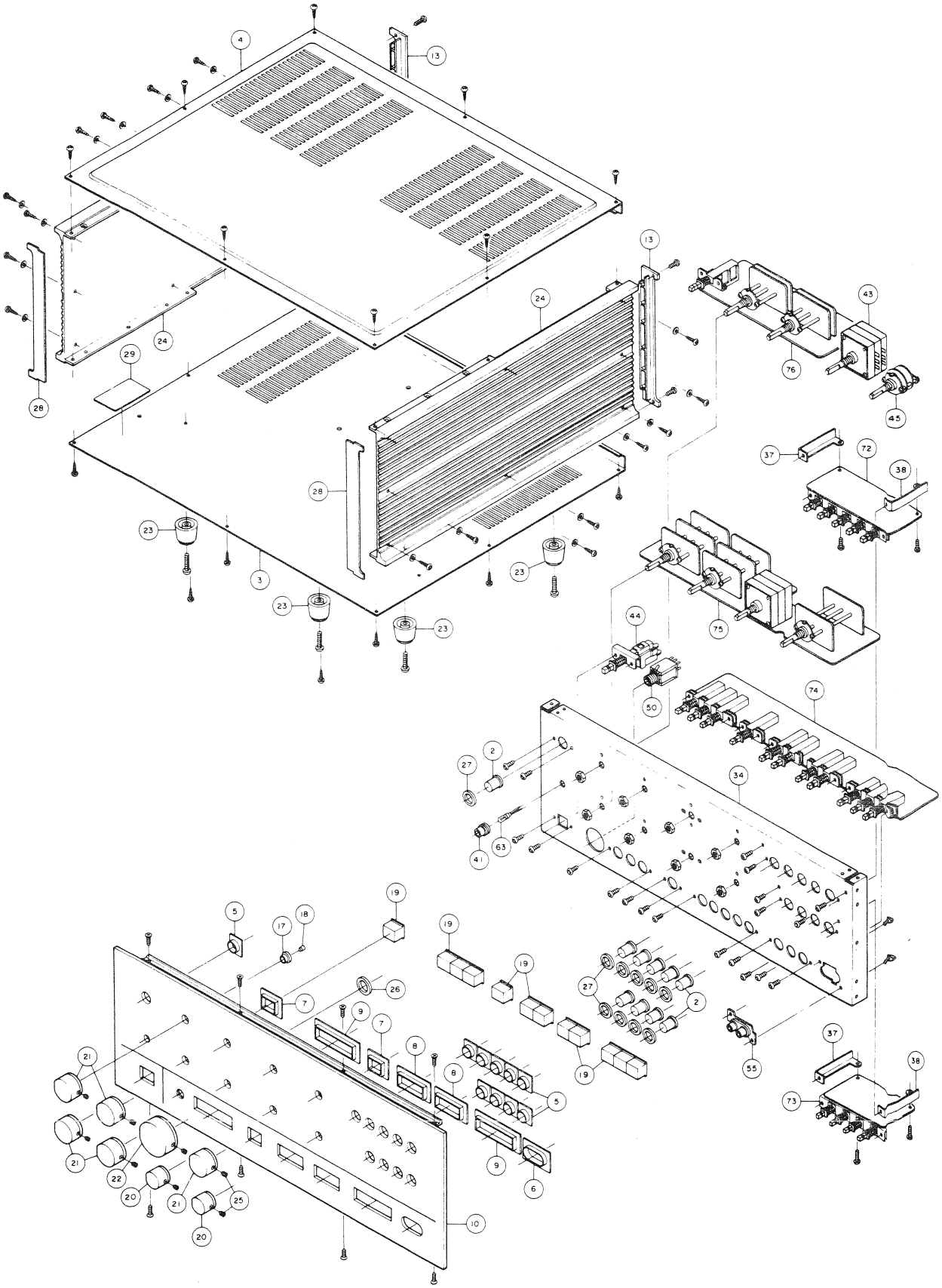
PRE-AMPLIFIER SECTION

Input Sensitivity/Impedance:	
(1 kHz, at rated power)	PHONO 1, 2: 2 mV/47 kohms TUNER : 200 mV/47 kohms AUX 1, 2 : 200 mV/47 kohms TAPE 1,2,3 : 200 mV/47 kohms DIN : 200 mV/47 kohms
Phono Overload Input:	RMS 500 mV max. (1 kHz) Peak to Peak 1400 mV max. (1 kHz)
Signal to Noise Ratio:	
PHONO 1, 2 :	More than 118 dB (IHF, B network)
AUX 1, 2 :	More than 120 dB (IHF, B network)
TUNER	More than 120 dB (IHF, B network)
TAPE 1, 2, 3 :	More than 120 dB (IHF, B network)
Output Level/Impedance:	
PRE-OUT 1, 2 :	2000 mV/1 kohms
Total Harmonic Distortion:	PRE-AMP OUT; 0.02% (at rated power)
Frequency Response:	
PHONO:	RIAA S.T.D. equalization 30 to 15 kHz ±0.1 dB
TUNER/TAPE/AUX	10 to 100 kHz (+0 dB − -1 dB)
Tone Control:	
Bass Control:	Turnover 200 Hz ±10 dB at 50 Hz
(2 dB step)	Turnover 400 Hz ±10 dB at 100 Hz
Treble Control:	Turnover 2.5 kHz ±10 dB at 10 kHz
(2 dB step)	Turnover 5 kHz ±10 dB at 20 kHz
Filter Control:	
Subsonic Filter:	30 Hz (18 dB/oct.)
Low Filter:	70 Hz (18 dB/oct.)
High Filter:	7 kHz (12 dB/oct.)
Supersonic Filter:	16 kHz (18 dB/oct.)
Audio Muting:	−20 dB

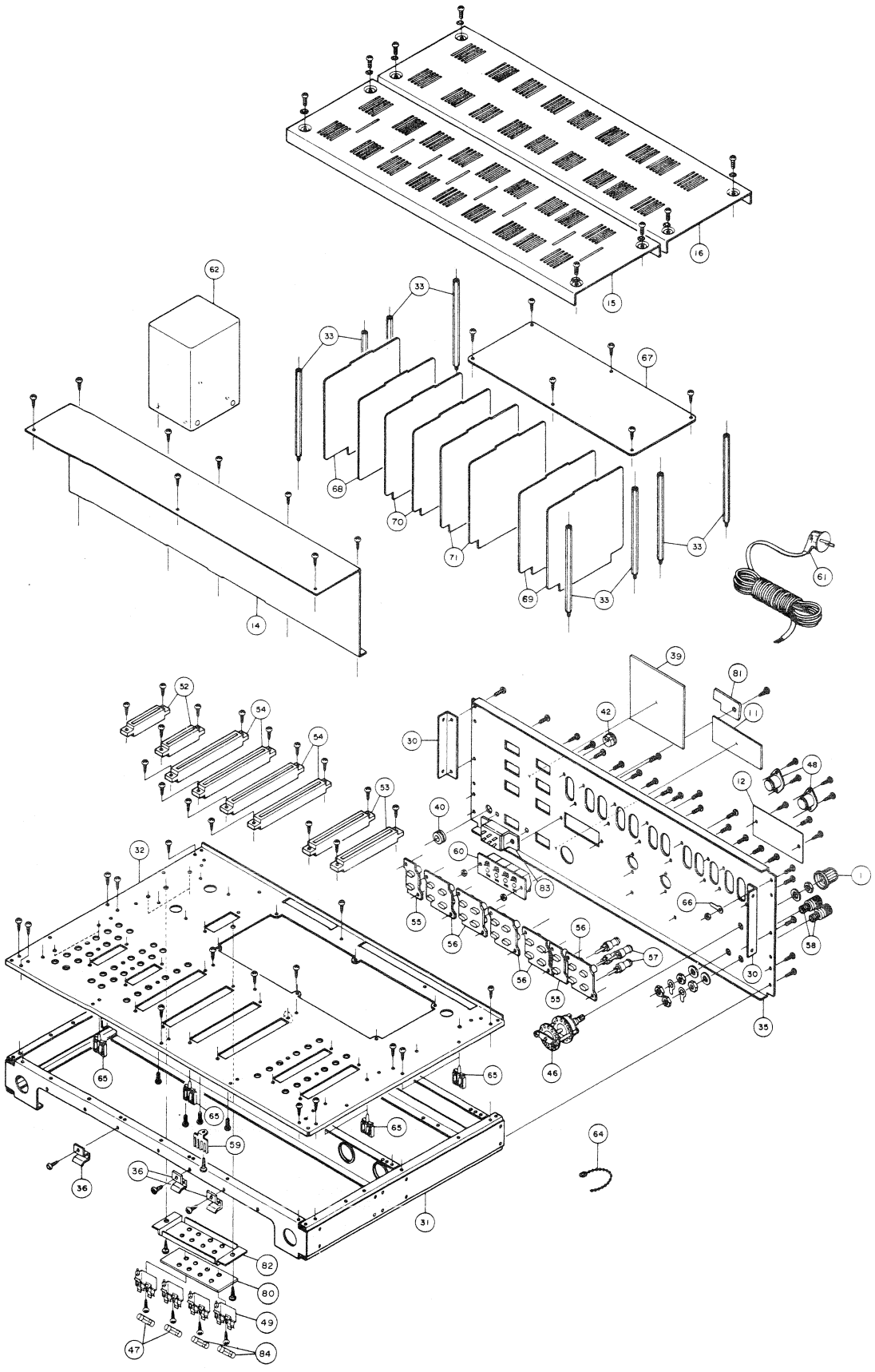
MISCHELLANEOUS

Power Requirements:	110V to 220V, 50/60 Hz
AC Outlets:	Switched: Six (Total 600W) Unswitched: Two (Total 200W)
Dimensions:	510W x 510D x 290H

EXPLODED VIEW



EXPLODED VIEW



PARTS LIST

Ref. No.	Part No.	Description	Q'ty
PACKING			
	131 6 1139 53005	Box corrugate-exp	1
	131 6 2119 01361	Bag polyethylene-exp	1
	131 6 3009 19850	Pad	1
	131 6 3009 19930	Pad, right, left	2
	131 6 4559 10700	Manufacturing NO	3
APPEARANCE			
1	131 0 1001 19202	Knob assy, rear impedance select	1
2	131 0 1001 30900	Knob assy, push switch	10
3	131 2 1105 14900	Plate bottom	1
4	131 2 1106 10703	Plate top	1
5	131 2 1116 13300	Frame, push knob	10
6	131 2 1116 13400	Frame, output terminal	1
7	131 2 1116 13500	Frame, power switch	2
8	131 2 1116 13600	Frame, turn over knob	2
9	131 2 1116 13700	Frame, duplicate	2
10	131 2 1203 31101	Panel control	1
12	131 2 1310 21828	Name plate	1
13	131 2 1311 34500	Sash, side	2
14	131 2 1410 12800	Cover, panel front	1
15	131 2 1410 12900	Cover, PCB section	1
16	131 2 1410 12901	Cover, power select	1
17	131 2 1501 10400	Cover, sign power ind.	1
18	131 2 1504 10902	Plate, sign lamp, power ind.	1
19	131 2 1601 33800	Knob, push switch	12
20	131 2 1601 33900	Knob, balance, loudness	2
21	131 2 1601 34000	Knob, bass, treble, function	5
22	131 2 1601 34100	Knob, volume	1
23	131 2 1801 13100	Leg	4
24	131 2 3315 10200	Panel side	2
25	131 2 4201 14600	Screw, rotary knob	8
26	131 2 4208 19100	Spacer, headphone jack	1
27	131 2 5203 23200	Felt, push switch	10
28	131 2 5205 14500	Cushion, side panel	2
29	131 2 6107 19000	Plate sever, plate bottom	1
	131 2 7103 19800	Label, plate bottom	1
	131 2 7103 19900	Caution label, plate top	1
CHASSIS			
11	131 2 1110 17900	Plate decorate	1
30	131 2 3202 11800	Metal reinf	2
31	131 2 3301 20701	Chassis	1
32	131 2 3301 20801	Chassis	1
33	131 2 3303 13000	Pole	8
34	131 2 3305 18001	Panel, front	1
35	131 2 3306 18605	Panel, rear	1
36	131 2 3310 13100	Metal, support	3
37	131 2 3614 16700	Metal, mount PCB	2
38	131 2 3614 16701	Metal, mount PCB	2
39	131 2 1110 18000	Plate decorate	1
40	131 2 6111 10300	Bushing	2
41	131 2 6111 14000	Bushing, power ind	1
42	131 2 6111 14300	Bushing, AC cord	1
80	131 2 7103 24100	Label fuse	1
81	131 2 7104 00500	Plate pad switch	1
82	131 2 3101 37500	MM fuse holder	1
ELECTRICAL PARTS			
43	4 2229 24460	Volume 100K detent	1
83	4 2319 21530	Switch	1
44	4 2319 33750	Power switch, push	1
45	4 2319 33790	Switch rotary, mode	1
46	4 2319 33800	Switch rotary	1
47	4 2349 20310	Fuse 0.5A	2
84	4 2349 20380	Fuse 1A	2
48	4 2359 20190	Socket 5P DIN	2
49	4 2359 21021	Fuse holder	4
50	4 2359 21670	Jack MIC	1
52	4 2359 22090	Connector 10P	2
53	4 2359 22110	PCB connector 18P	2
54	4 2359 22120	PCB connector 22P	4
55	4 2359 22130	RCA pin jack 2P	3

Ref. No.	Part No.	Description	Q'ty
ELECTRICAL PARTS			
56	4 2359 22140	RCA pin jack 4P	5
57	4 2369 20561	Plug 1P	4
58	4 2379 21060	Terminal G	2
59	4 2379 21260	Grand terminal lug 5P	1
60	4 2379 21400	Terminal, SP terminal 4P	1
61	4 2439 20590	Power cord	1
62	4 2519 23280	Power trans	1
63	4 6129 20470	Pilot lamp 12V	1
C02,03	C1HYDZ473A--	Ceramic 0.047MF 50V +80%,-20%	2
C01	C2JNRM103C--	PP 0.01MF 630V ±20%	1
R16,17, 18,15	R2HDPJ104A	Carbon 100K 1/2W ±5%	4
R09,10	R2HDPJ204A	Carbon 200K 1/2W ±5%	2
R01,02	R2HDPJ332A	Carbon 3.3K 1/2W ±5%	2
R11,12, 13,14	R2HDPJ334A	Carbon 330K 1/2W ±5%	4
R07,08	R2HDPJ393A	Carbon 39K 1/2W ±5%	2
R03,04, 05,06	R2HDPJ623A	Carbon 62K 1/2W ±5%	4
64	131 2 3608 11300	Cramp wire	40
65	131 2 3608 11701	Cramp wire	8
66	201 3 7000 00300	Lug	1

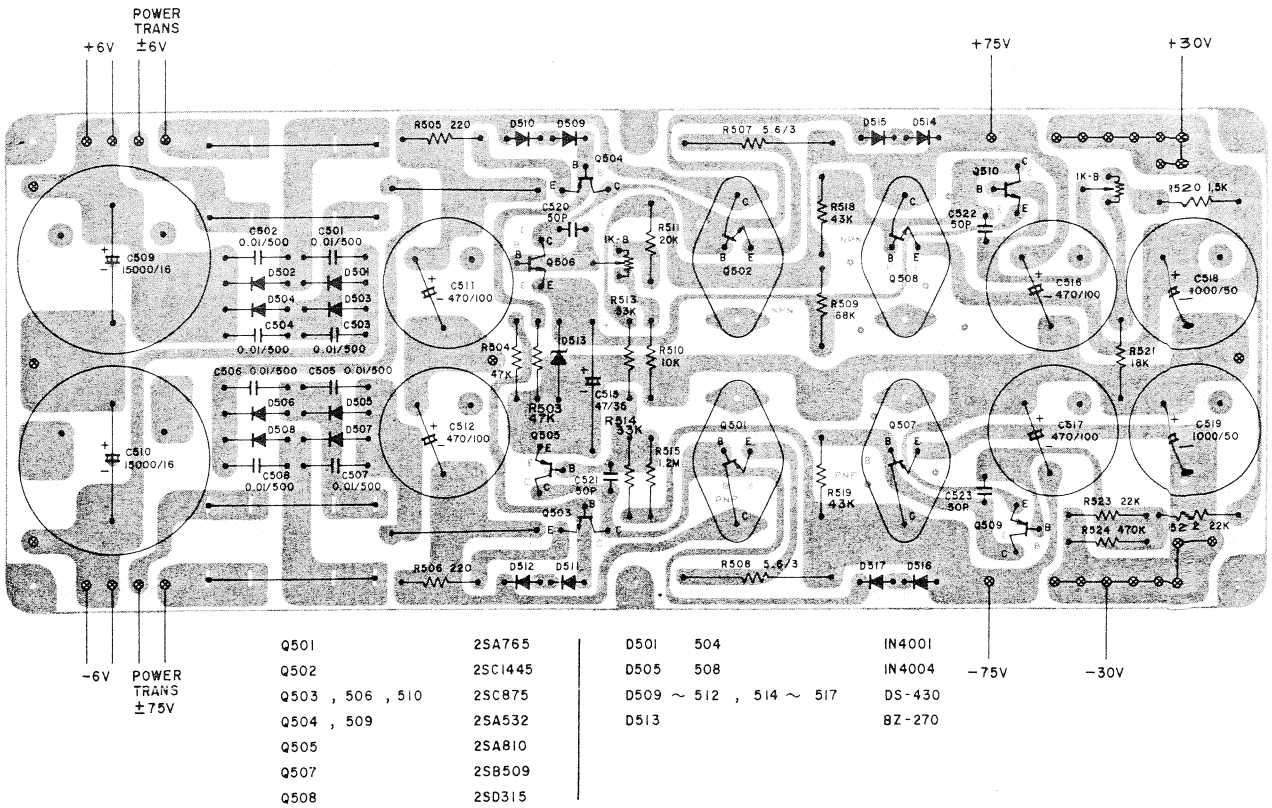
NOTES: 1. Part orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

PARTS LIST

Ref. No.	Part No.	Description	Q'ty
POWER SUPPLY PCB ASSY			
67	131 0 4001 59701	Power supply assy	1
	4 2229 22910	VR B-1K Voltage	2
C09,10	4 2239 20710	Fixed cap 15000M 16V	2
C18,19	4 2239 20720	Fixed cap 1000M 50V	2
C11,12, 16,17	4 2239 20730	Fixed cap 470M 100V	4
C15	4 2239 20820	Fixed cap 47M 35V	1
C20,21, 22,23	C1HCSK500SL-	Ceramic 50PF 50V ±10%	4
C01,02, 03,04 05,06, 07,08	C2HYSP103A--	Ceramic 0.01MF 500V +100% -0%	8
D01,02, 03,04	DGG-1N4001---	Diode 1N4001 GI	4
D05,06, 07,08	DGG-1N4004---	Diode 1N4004 GI	4
D13	DJJ-CZ-275---	Zener diode CZ-275	1
R10	R2HDPJ123A	Carbon 12K 1/2W ±5%	1
R15	R2HDPJ125A	Carbon 1.2M 1/2W ±5%	1
R20	R2HDPJ152A	Carbon 1.5K 1/2W ±5%	1
R21	R2HDPJ183A	Carbon 18K 1/2W ±5%	1
R11	R2HDPJ203A	Carbon 20K 1/2W ±5%	1
R05,06	R2HDPJ221A	Carbon 220 1/2W ±5%	2
R22,23	R2HDPJ223A	Carbon 22K 1/2W ±5%	2
R13,14	R2HDPJ333A	Carbon 33K 1/2W ±5%	2
R18,19	R2HDPJ433A	Carbon 43K 1/2W ±5%	2

Ref. No.	Part No.	Description	Q'ty
POWER SUPPLY PCB ASSY			
R03,04	R2HDPJ473A	Carbon 47K 1/2W ±5%	2
R24	R2HDPJ474A	Carbon 470K 1/2W ±5%	1
R09	R2HDPJ683A	Carbon 68K 1/2W ±5%	1
R07,08	R3WEPK5R6A	Cemen 5.6 3W ±10%	2
Q01	TAA-2SA765--G	Transistor 2SA765	1
Q02	TAA-2SC1445-G	Transistor 2SC1445	1
Q05	THH-2SA810--B	Transistor 2SA810	1
Q05	131 2 4208 20900	Transistor spacer	1
Q03,04, 06,09, 10	131 2 4208 20910	Transistor spacer	5
R01,02, 07,08	131 2 6108 11201	Cover sever	8
Q01,02, 07,08	131 2 6201 20400	Heat sink	4
Q03,06, 10	203 5 4600 87560	Transistor 2SC 875	3
Q07	203 5 6450 50950	Transistor 2SB509	1
Q04,09	203 5 7100 53250	Transistor 2SA 532	2
Q08	203 5 8410 31550	Transistor 2SD315	1
D09,10, 11,12, 14,15, 16,17	205 5 9020 43011	Diode DS 430	8

POWER SUPPLY PCB ASSY

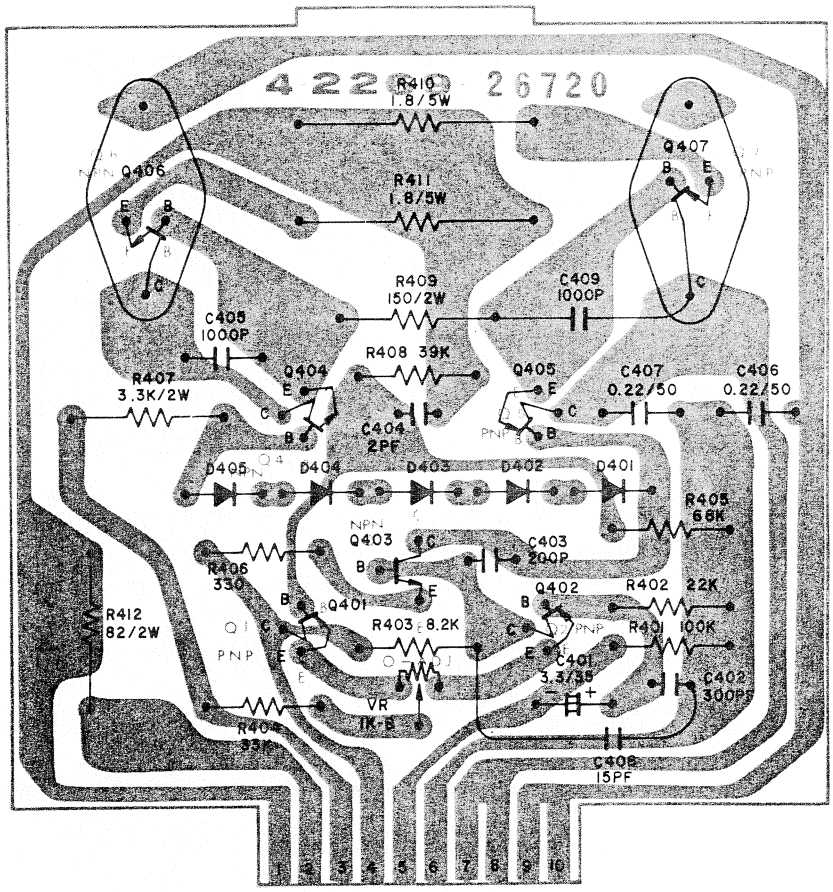


PARTS LIST

Ref. No.	Part No.	Description	Q'ty
	MONITOR AMP PCB ASSY		
68	131 0 4001 59200	Monitor AMP PC assy	2
	4 2229 22910	VR B-1K Bias adjust	1
C08	C1HCDJ150SL-	Ceramic 15PF 50V ±5%	1
C04	C1HCSC020SL-	Ceramic 2PF 50V ±0.25PF	1
C03	C1HCSK201SL-	Ceramic 200PF 50V ±10%	1
C02	C1HCSK301SL-	Ceramic 300PF 50V ±10%	1
C06,07	C1HFAM224A--	Mylar 0.22MF 50V ±20%	2
C05,09	C1HYSK102R--	Ceramic 0.001MF 50V ±20%	2
C01	C1VTRM335A-	Tantal 3.3MF 35V ±20%	1
R01	R2HDPJ104A	Carbon 100K ohm 1/2W ±5%	1
R02	R2HDPJ223A	Carbon 22K ohm 1/2W ±5%	1
R06	R2HDPJ331A	Carbon 330 ohm 1/2W ±5%	1
R04	R2HDPJ333A	Carbon 33K ohm 1/2W ±5%	1
R08	R2HDPJ393A	Carbon 39K ohm 1/2W ±5%	1
R05	R2HDPJ683A	Carbon 68K ohm 1/2W ±5%	1
R03	R2HDPJ822A	Carbon 8.2K ohm 1/2W ±5%	1
R09	R3DXPK151A	OMF 150 2W ±10%	1

Ref. No.	Part No.	Description	Q'ty
	MONITOR AMP PCB ASSY		
R07	R3DXPK332A	OMF 3.3K 2W ±10%	1
R12	R3DXPK820A	OMF 82 2W ±10%	1
R10,11	R3HEPK1R8A	Cemen 1.8 5W ±10%	2
Q01,02	TJJ-2SA763--5	Transistor 2SA763	2
Q05	TMM-2SA726--F	Transistor 2SA726	1
Q04	TMM-2SC1313-F	Transistor 2SC1313	1
Q01,02, 04,05	131 2 4208 20900	Transistor spacer	4
Q03	131 2 4208 20910	Transistor spacer	1
R10,11, 09,07, 12	131 2 6108 11201	Cover sever	10
Q06,07	131 2 6201 20400	Heat sink	2
Q03	203 5 4600 87550	Transistor 2SC875	1
Q06	203 5 6450 50950	Transistor 2SB509	1
Q07	203 5 8410 31550	Transistor 2SD315 E	1
D01,02, 03,04, 05	205 5 9020 43011	Diode DS 430	5

MONITOR AMP PCB ASSY



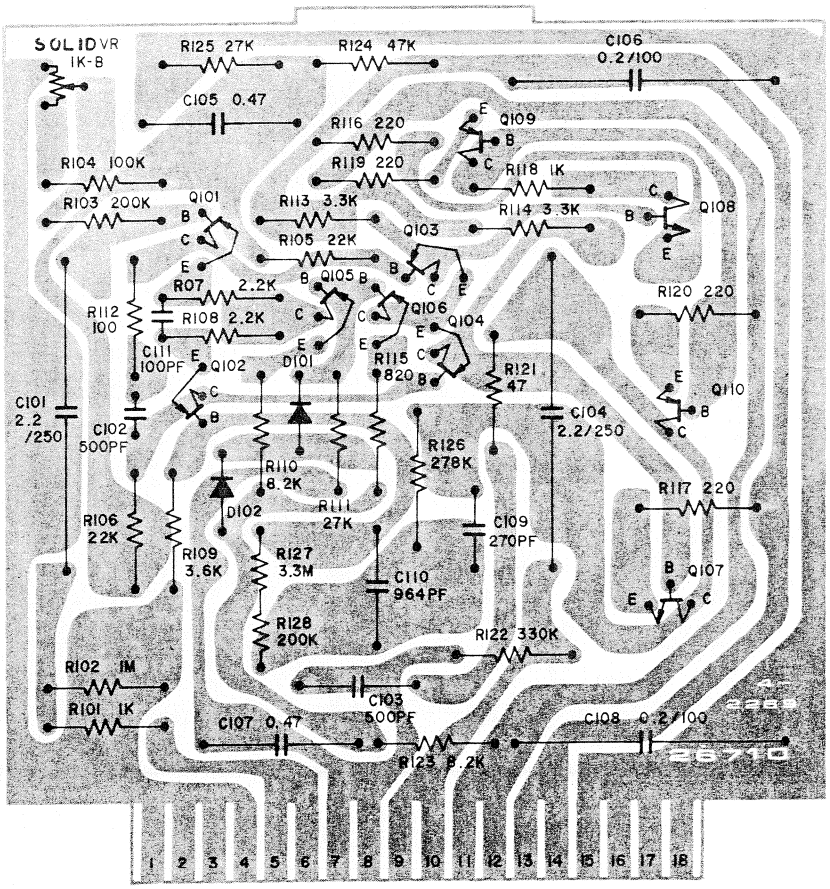
Q401 , 402	2SA763	Q403	2SC875
Q405	2SA736	Q404	2SC1313
Q407	2SB509	Q406	2SD315
D401 ~ 405	DS-430		

PARTS LIST

Ref. No.	Part No.	Description	Q'ty
EQ AMP PCB ASSY			
69	131 0 4001 59100	EQ AMP PCB Assy	2
R26	4 2219 20020	Carbon 278K ohm 1/2W	1
	4 2229 22910	VR B-1K, C.P. Adjust	1
C10	4 2239 20850	Styrol 964PF 50V ±0.5PF	1
C11	C1HCSK101SL-	Ceramic 100PF 50V ±10%	1
C05,07	C1HFAM474A--	Mylar 0.47MF 50V ±20%	2
C09	C1HSED271A--	Styrol 270PF 50V ±0.5PF	1
C02,03	C1HSEK501A--	Styrol 500PF 50V ±10%	2
C06,08	C2AHTM204A--	MP 0.2MF ohm 100V ±20%	2
C01,04	C2EFTM225B--	Mylar 2.2MF ohm 250V ±20%	2
R28	R2HDPD204A	Carbon 200K ohm 1/2W	1
R27	R2HDPD335A	Carbon 3.3M ohm 1/2W	1
R12	R2HDPJ101A	Carbon 100 ohm 1/2W ±5%	1
R01,18	R2HDPJ102A	Carbon 1K ohm 1/2W ±5%	2
R04	R2HDPJ104A	Carbon 100K ohm 1/2W ±5%	1
R02	R2HDPJ105A	Carbon 1M ohm 1/2W ±5%	1
R03	R2HDPJ204A	Carbon 200K ohm 1/2W ±5%	1
R16,17, 19,20	R2HDPJ221A	Carbon 220 ohm 1/2W ±5%	4

Ref. No.	Part No.	Description	Q'ty
EQ AMP PCB ASSY			
R07,08	R2HDPJ222A	Carbon 2.2K ohm 1/2W ±5%	2
R05,06	R2HDPJ223A	Carbon 22K ohm 1/2W ±5%	2
R11,25	R2HDPJ273A	Carbon 27K ohm 1/2W ±5%	2
R13,14	R2HDPJ332A	Carbon 3.3K ohm 1/2W ±5%	2
R22	R2HDPJ334A	Carbon 330K ohm 1/2W ±5%	1
R09	R2HDPJ362A	Carbon 3.6K ohm 1/2W ±5%	1
R21	R2HDPJ470A	Carbon 47 ohm 1/2W ±5%	1
R24	R2HDPJ473A	Carbon 47K ohm 1/2W ±5%	1
R15	R2HDPJ821A	Carbon 820 ohm 1/2W ±5%	1
R10,23	R2HDPJ822A	Carbon 8.2K ohm 1/2W ±5%	2
Q09,10	THH-2SA810--B	Transistor 2SA810	2
Q07,08	THH-2SC1452-B	Transistor 2SC1452	2
Q01,02, 03,04	TJJ-2SA620-WL	Transistor 2SA620	4
Q05,06	TMM-2SA628--E	Transistor 2SA628	2
Q01~10	131 2 4208 20900	Transistor spacer	10
Q07,08, 10	131 2 6202 11400	Heat sink	3
D01,02	205 5 9040 44210	Diode DS-442	2

EQ AMP PCB ASSY



Q101 ~ 104	2SA620WLH		Q105 , 106	2SA628 E,F	
Q107 , 108	2SC1452 B,V		Q109 , 110	2SA810 B,V	
D101 , 102	DS-430 (S)				

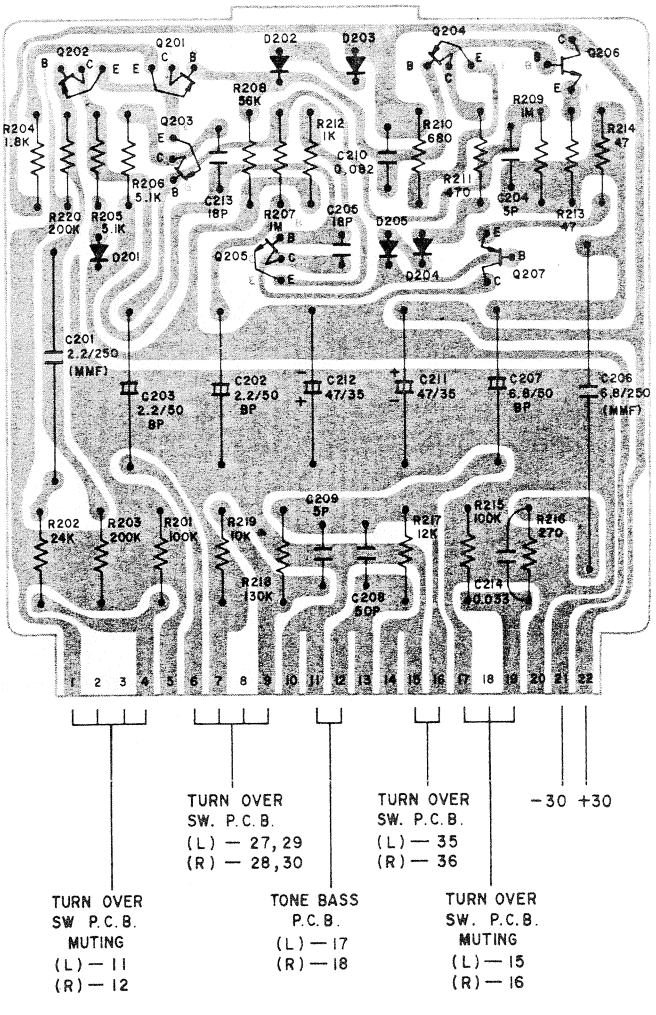
PARTS LIST

Ref. No.	Part No.	Description	Q'ty
TONE AMP PCB ASSY			
70	131 0 4001 59600	Tone AMP PCB Assy	2
C07	4 2239 20780	BP cap 6.8M 50V	1
C02,03	4 2239 20790	BP cap 2.2M 50V	2
C11,12	4 2239 20820	Fixed cap 47M 35V	2
C04,09	C1HCDC050SL-	Ceramic 5PF 50V ±0.25PF	2
C05,13	C1HCDJ180SL-	Ceramic 18PF 50V ±5%	2
C08	C1HCDJ500SL-	Ceramic 50PF 50V ±5%	1
C14	C1HFAM333A--	Mylar 0.033MF 50V ±20%	1
C10	C1HFAM823A--	Mylar 0.082MF 50V ±20%	1
C01	C2EFTM225B--	Mylar 2.2MF 250V ±20%	1
C06	C2EFTM685B--	Mylar 6.8MF 250V ±20%	1
R12	R2HDPJ102A	Carbon 1K ohm 1/2W ±5%	1
R19	R2HDPJ103A	Carbon 10K ohm 1/2W ±5%	1
R01,15	R2HDPJ104A	Carbon 100K ohm 1/2W ±5%	2
R07,09	R2HDPJ105A	Carbon 1M ohm 1/2W ±5%	2
R17	R2HDPJ123A	Carbon 12K ohm 1/2W ±5%	1
R18	R2HDPJ134A	Carbon 130K ohm 1/2W ±5%	1
R04	R2HDPJ182A	Carbon 1.8K ohm 1/2W ±5%	1
R03,20	R2HDPJ204A	Carbon 200K ohm 1/2W ±5%	2
R02	R2HDPJ243A	Carbon 24K ohm 1/2W ±5%	1
R16	R2HDPJ271A	Carbon 270 ohm 1/2W ±5%	1

Ref. No.	Part No.	Description	Q'ty
TONE AMP PCB ASSY			
R13,14	R2HDPJ470A	Carbon 47 ohm 1/2W ±5%	2
R11	R2HDPJ471A	Carbon 470 ohm 1/2W ±5%	1
R05,06	R2HDPJ512A	Carbon 5.1K ohm 1/2W ±5%	2
R08	R2HDPJ563A	Carbon 56K ohm 1/2W ±5%	1
R10	R2HDPJ681A	Carbon 680 ohm 1/2W ±5%	1
Q01,02, 03,04	TJJ-2SA763-WL	Transistor 2SA763-WLH	4
Q05	TMM-2SC1313SF	Transistor 2SC1313S	1
Q01,02, 03,04, 05	131 2 4208 20900	Transistor spacer	5
Q06,07	131 2 4208 20910	Transistor spacer	2
Q06	203 5 4600 87550	Transistor 2SC875	1
Q07	203 5 7100 53250	Transistor 2SA532	1
D01,02, 03,04, 05	205 5 9020 43011	Diode DS 430	5

TONE AMP PCB ASSY

Q201 ~ 204	2SA763-WLH-5	Q205	2SC1313S F,G
Q206	2SC875 E,F	Q207	2SA532 E,F
D201 ~ 205	DS-430		


Q201 ~ 204 2SA763-WLH-5
Q205 2SC1313S F,G
Q206 2SC875 E,F
Q207 2SA532 E,F
D201 ~ 205 DS-430
TURN OVER SW. P.C.B. (L) — 27, 29 (R) — 28, 30
TURN OVER SW. P.C.B. (L) — 35 (R) — 36
-30 +30
TURN OVER SW P.C.B. MUTING (L) — 11 (R) — 12
TONE BASS P.C.B. (L) — 17 (R) — 18
TURN OVER SW. P.C.B. MUTING (L) — 15 (R) — 16

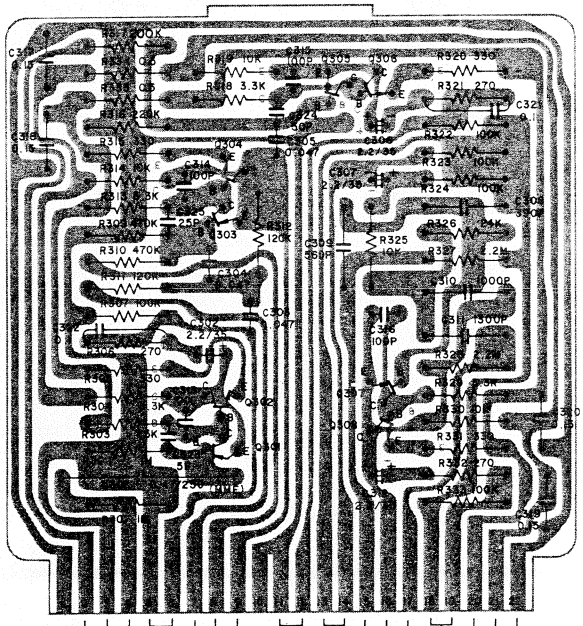
PARTS LIST

Ref. No.	Part No.	Description	Q'ty
FILTER AMP PCB ASSY			
71	131 0 4001 59300	Filter AMP PCB Assy	2
C23	C1HCDC050SL-	Ceramic 5PF 50V ±0.25PF	1
C25	C1HCDJ250SL-	Ceramic 25PF 50V ±5%	1
C24	C1HCDK500SL-	Ceramic 50PF 50V ±10%	1
C13,14, 15,16	C1HCSK101SL-	Ceramic 100PF 50V ±10%	4
C03,04, 05	C1HFAJ473A--	Mylar 0.047MF 50V ±5%	3
C21,22	C1HFAM104A--	Mylar 0.1MF 50V ±20%	2
C17,18, 19,20	C1HFAM154A--	Mylar 0.15MF 50V ±20%	4
C10	C1HSTJ102A--	Styrol 1000PF 50V ±5%	1
C11	C1HSTJ132A--	Styrol 1300PF 50V ±5%	1
C08	C1HSTJ391A--	Styrol 390PF 50V ±5%	1
C09	C1HSTJ561A--	Styrol 560PF 50V ±5%	1
C07	C1VTRM225A--	Tantal 2.2MF 35V ±20%	1
C02,06, 12	C1VTRM475A--	Tantal 4.7MF 35V ±20%	3
C01	C2EFTM474B--	Mylar 0.47MF 250V ±20%	1
R34,35	R2HDPJ0R5A	Carbon 0.5A ohm 1/2W ±5%	2
R25,14, 19,30	R2HDPJ103A	Carbon 10K ohm 1/2W ±5%	4
R07,33, 22,23, 24	R2HDPJ104A	Carbon 100K ohm 1/2W ±5%	5

Ref. No.	Part No.	Description	Q'ty
FILTER AMP PCB ASSY			
R01,02	R2HDPJ105A	Carbon 1M ohm 1/2W ±5%	2
R12,11	R2HDPJ124A	Carbon 120K ohm 1/2W ±5%	2
R17	R2HDPJ204A	Carbon 200K ohm 1/2W ±5%	1
R16	R2HDPJ224A	Carbon 220K ohm 1/2W ±5%	1
R27,28	R2HDPJ225A	Carbon 2.2M ohm 1/2W ±5%	2
R26	R2HDPJ243A	Carbon 24K ohm 1/2W ±5%	1
R06,21, 32	R2HDPJ271A	Carbon 270 ohm 1/2W ±5%	3
R05 15, 20,31	R2HDPJ331A	Carbon 330 ohm 1/2W ±5%	4
R04,13, 18,29	R2HDPJ332A	Carbon 3.3K ohm 1/2W ±5%	4
R10,09	R2HDPJ474A	Carbon 470K ohm 1/2W ±5%	2
R03	R2HDPJ752A	Carbon 7.5K ohm 1/2W ±5%	1
Q01,03, 05,07	TJJ-2SA763-WL	Transistor 2SA763	4
Q04,06, 08	TMM-2SC1313SF	Transistor 2SC1313	3
Q01,03, 04,05, 06,07, 08	131 2 4208 20900	Transistor spacer	7
Q02	131 2 4208 20910	Transistor spacer	1
Q02	203 5 4600 87550	Transistor 2SC875	1

FILTER AMP PCB ASSY

Q301 , 303 , 305 , 307 2SA763 - WLH-5
Q302 2SC875 F,E
Q304 , 306 , 308 2SC1313S



TONE BASS P.C.B.
(L) — 21 , (R) — 22 — IN
TURN OVER SW. P.C.B.
(L) — 53 , (R) — 54
(L) — 43 , (R) — 44 — OUT
(L) — 51 , (R) — 52
(L) — 55 , (R) — 56
(L) — 49 , (R) — 50
(L) — 47 , (R) — 48 — LOW OUT

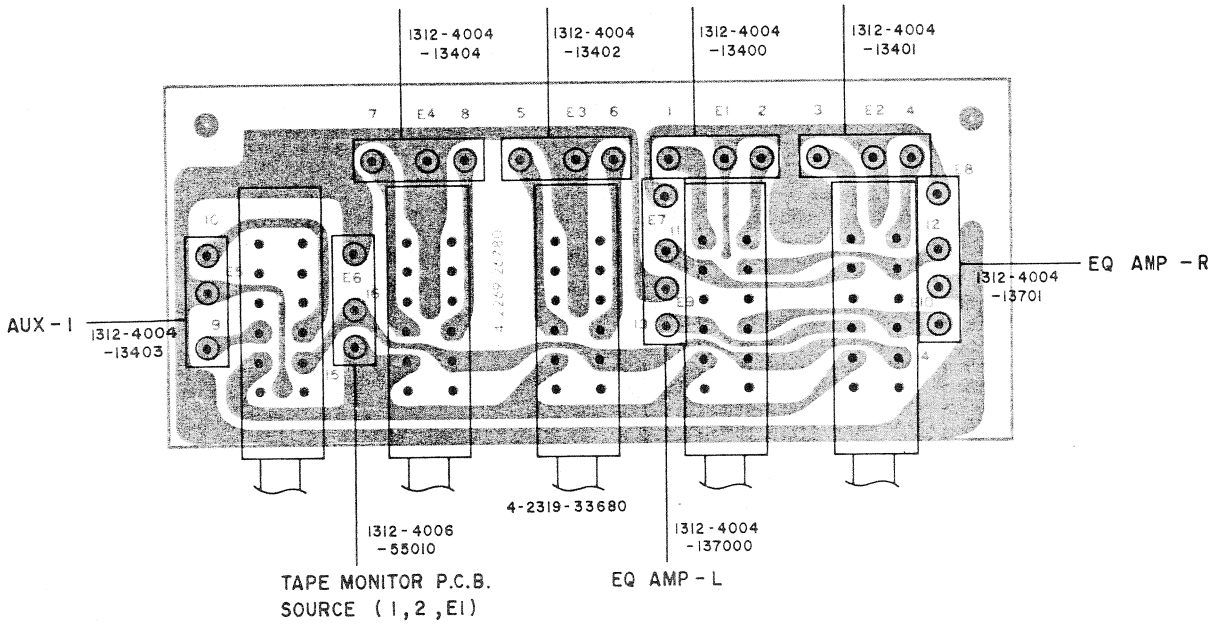
(L) EQ EARTH
+30
−30
HIGH OUT — TURN OVER SW. P.C.B.
(L) — 63 , (R) — 64
(L) — 59 , (R) — 60
(L) — 57 , (R) — 58
(L) — 61 , (R) — 62
HIGH IN — (L) — 45 , (R) — 46

PARTS LIST

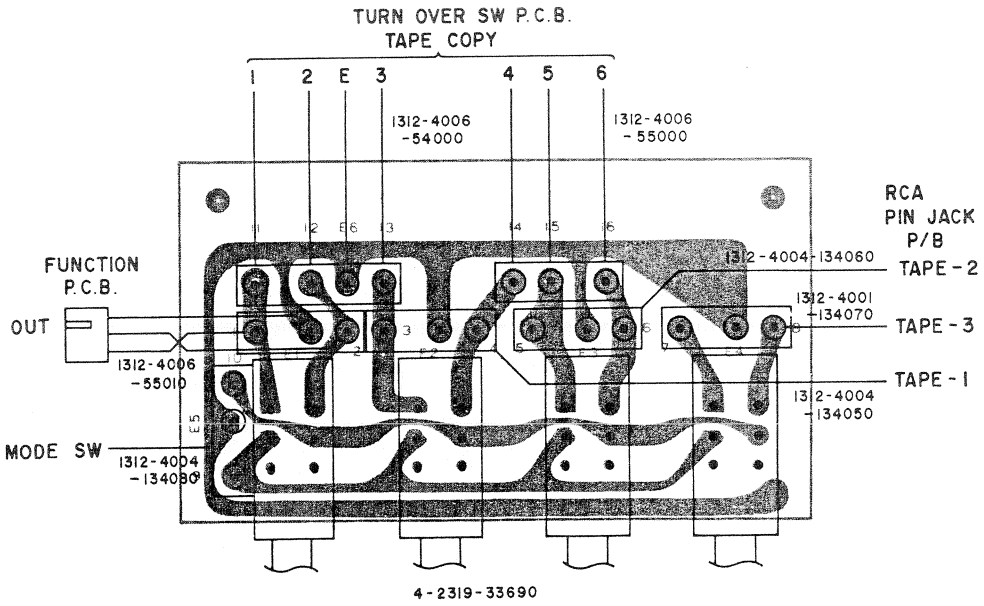
Ref. No.	Part No.	Description	Q'ty
FUNCTION PCB ASSY			
72	131 0 4001 59800	Function PCB assy	1
	4 2319 33680	Push switch 5key	1
	4 2379 21360	Terminal, PH1,2, Tuner, Aux1,2 output	6
	4 2379 21370	Terminal 4P, Phono-L, R	2

Ref. No.	Part No.	Description	Q'ty
TAPE MONITOR PCB ASSY			
73	131 0 4001 59900	Tape monitor PCB assy	1
	4 2319 33690	Push switch 4key, Tape monitor	1
	4 2379 21360	Terminal, Tape 1,2,3, Mode, Tape copy	5
	4 2379 21370	Terminal 4P, Tape copy	1
	131 2 4006 05501	Wire assy 3P	1

FUNCTION PCB ASSY



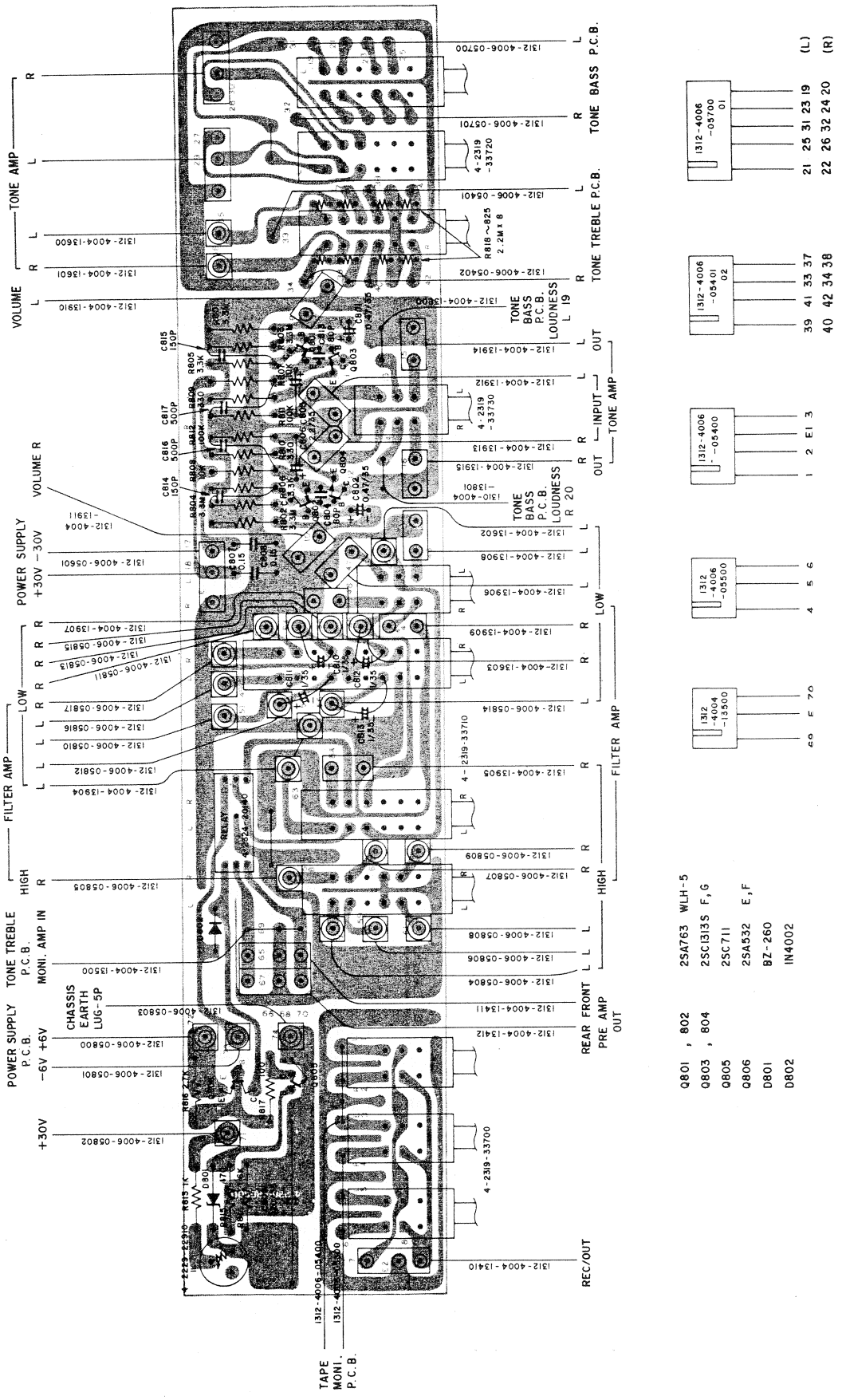
TAPE MONITOR PCB ASSY



PARTS LIST

Ref. No.	Part No.	Description	Q'ty
TURN OVER PCB ASSY			
74	131 0 4001 60000	Turn over switch PCB assy	1
	4 2229 22910	VR B-1K*1	1
C09	4 2239 20810	Fixed cap 470M 35V	1
	4 2319 33700	Push SW 3key, Tape copy	1
	4 2319 33710	Push SW 4key, Filter	1
	4 2319 33720	Push SW 3key, Tone turnover	1
	4 2319 33730	Push SW 1key, Audio muting	1
	4 2329 20140	Relay, Muting	1
	4 2379 21340	Connector 1P	46
	4 2379 21360	Terminal, Rec out, Pre out, Power Tone Amp	6
C14,15	C1HCDK151SL-	Ceramic 150PF 50V ±10%	2
C03,04	C1HCSK800SL-	Ceramic 80PF 50V ±10%	2
C07,08	C1HFAM154A--	Mylar 0.15MF 50V ±20%	2
C16,17	C1HYDK501R--	Ceramic 500PF 50V ±10%	2
C10,11, 12,13	C1VTRM105A--	Tantal 1MF 35V ±20%	4
C05,06	C1VTRM225A--	Tantal 2.2MF 35V ±20%	2
C01,02	C1VTRM474A--	Tantal 0.47MF 35V ±20%	2
D02	DGG-1N4001---	Diode 1N4001	1
D01	DJJ-WZ-260---	Zener, Diode WZ-260	1
R18,19, 20,21 22,23, 24,25	R2EDUJ225A	Carbon 2.2M ohm 1/4W ±5%	8
R17	R2HDPJ101A	Carbon 100 ohm 1/2W ±5%	1
R13	R2HDPJ102A	Carbon 1K ohm 1/2W ±5%	1
R07,08	R2HDPJ103A	Carbon 10K ohm 1/2W ±5%	2
R11,12	R2HDPJ104A	Carbon 100K ohm 1/2W ±5%	2
R16	R2HDPJ272A	Carbon 2.7K ohm 1/2W ±5%	1
R09,10	R2HDPJ331A	Carbon 330 ohm 1/2W ±5%	2
R05,06	R2HDPJ332A	Carbon 3.3K ohm 1/2W ±5%	2
R01,02 03,04	R2HDPJ335A	Carbon 3.3M ohm 1/2W ±5%	4
R15	R2HDPJ471A	Carbon 470 ohm 1/2W ±5%	1
R14	R2HDPJ563A	Carbon 56K ohm 1/2W ±5%	1
Q01,02	TJJ-2SA763-WL	Transistor 2SA763	2
Q03,04	TMM-2SC1313SF	Transistor 2SC1313	2
Q05	TMM-2SC711--E	Transistor 2SC711	1
	131 0 4004 13500	Wire assy shield, Monitor Amp SW	1
	131 0 4004 13800	Wire assy shield, Loudness L	1
	131 0 4004 13801	Wire assy shield, Loudness R	1
	131 0 4006 05400	Wire assy 4P	1
	131 0 4006 05401	Wire assy 4P, Tone treble L	1
	131 0 4006 05402	Wire assy 4P, Tone treble R	1
	131 0 4006 05500	Wire assy 3P, Monitor	1
	131 0 4006 05700	Wire assy 5P, Tone bass L	1
	131 0 4006 05701	Wire assy 5P, Tone bass R	1
Q01,02, 03,04, 05	131 2 4208 20900	Transistor spacer	5
Q06	131 2 4208 20910	Transistor spacer	1
Q06	203 5 7100 53250	Transistor 2SA532	1

TURN OVER SW PCB ASSY



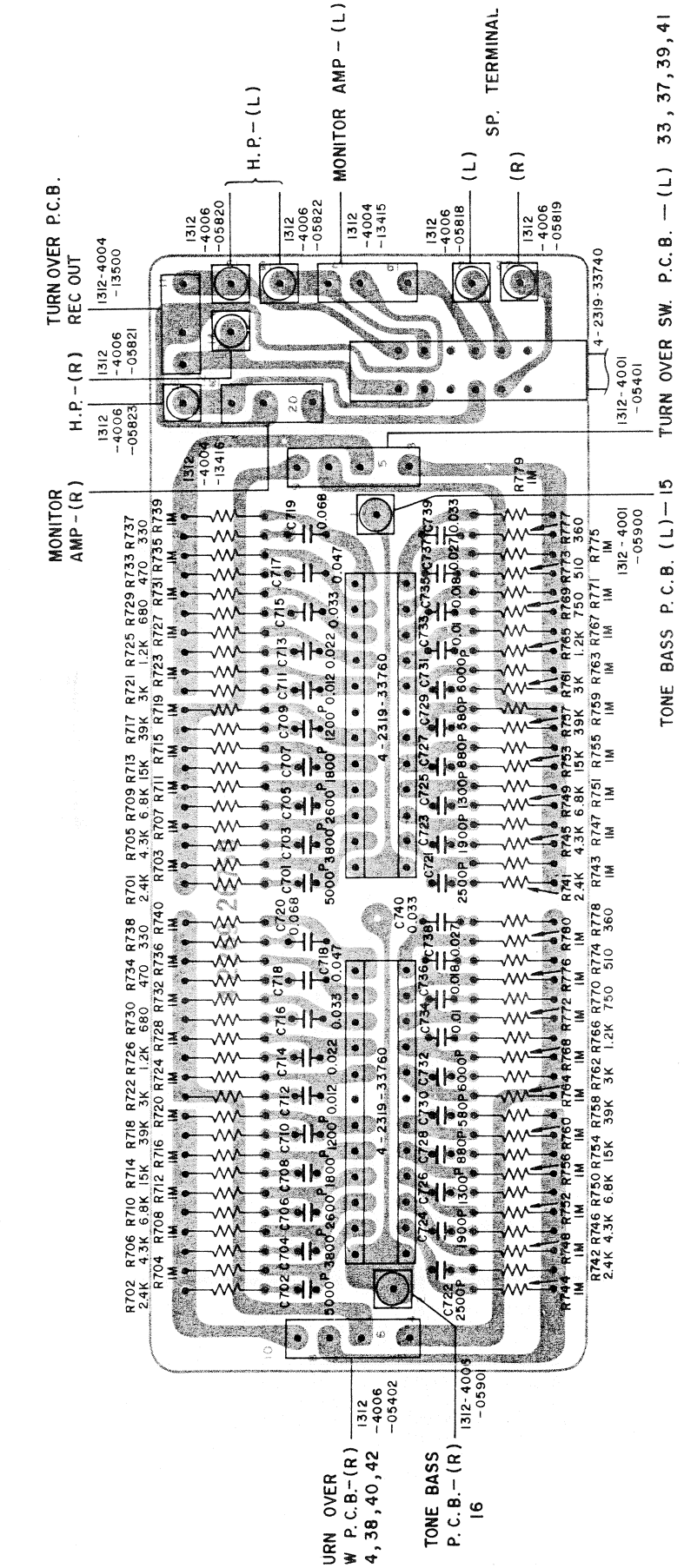
Q801 , 802	2SA763 WLH-5
Q803 , 804	2SC1313S F, G
Q805	2SC711
Q806	2SA532 E, F
D801	BZ-260
D802	IN4002

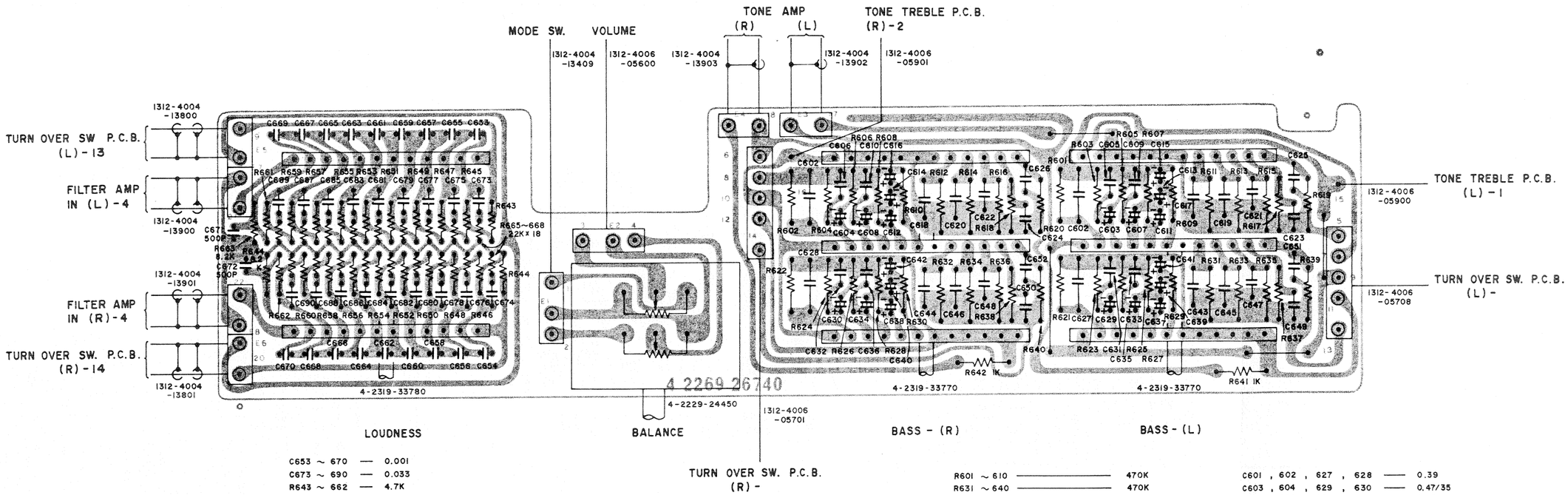
Ref. No.	Part No.	Description	Q'ty
TONE TREBLE ASSY			
76	131 0 4001 59500	Tone treble PCB assy	1
	4 2319 33740	Switch Push 1key, Monitor Amp	1
	4 2319 33760	Switch Rotary, Tone treble	2
	4 2379 21340	Connector 1P	8
	4 2379 21360	Terminal	3
	4 2379 21370	Terminal 4P	2
C33,34	C1HFAJ103A--	Mylar 0.01MF 50V ±5%	2
C11,12	C1HFAJ123A--	Mylar 0.012MF 50V ±5%	2
C35,36	C1HFAJ183A--	Mylar 0.018MF 50V ±5%	2
C13,14	C1HFAJ223A--	Mylar 0.022MF 50V ±5%	2
C37,38	C1HFAJ273A--	Mylar 0.027MF 50V ±5%	2
C15,16, 39,40	C1HFAJ333A--	Mylar 0.033MF 50V ±5%	4
C17,18	C1HFAJ473A--	Mylar 0.047MF 50V ±5%	2
C19,20	C1HFAJ683A--	Mylar 0.068MF 50V ±5%	2
C09,10	C1HSBJ122A--	Styrol 1200PF 50V ±5%	2
C25,26	C1HSBJ132A--	Styrol 1300PF 50V ±5%	2
C07,08	C1HSBJ182A--	Styrol 1800PF 50V ±5%	2
C23,24	C1HSBJ192A--	Styrol 1900PF 50V ±5%	2
C21,22	C1HSBJ252A--	Styrol 2500PF 50V ±5%	2
C05,06	C1HSBJ262A--	Styrol 2600PF 50V ±5%	2
C03,04	C1HSBJ382A--	Styrol 3800PF 50V ±5%	2
C01,02	C1HSBJ502A--	Styrol 5000PF 50V ±5%	2
C29,30	C1HSBJ581A--	Styrol 580PF 50V ±5%	2
C31,32	C1HSBJ602A--	Styrol 6000PF 50V ±5%	2
C27,28	C1HSBJ881A--	Styrol 880PF 50V ±5%	2
R03,04, 07,08, 11,12, 15,16, 19,20, 23,24, 27,28, 31,32, 35,36, 39,40, 43,44, 47,48, 51,52, 55,56, 59,60, 63,64, 67,68, 71,72, 75,76, 79,80	R2EDSJ105A	Carbon 1M ohm 1/4W ±5%	40
R65,66, 25,26	R2EDSJ122A	Carbon 1.2K ohm 1/4W ±5%	4
R13,14, 53,54	R2EDSJ153A	Carbon 15K ohm 1/4W ±5%	4
R01,02, 41,42	R2EDSJ242A	Carbon 2.4K ohm 1/4W ±5%	4
R61,62, 21,22	R2EDSJ302A	Carbon 3K ohm 1/4W ±5%	4
R37,38	R2EDSJ331A	Carbon 330 ohm 1/4W ±5%	2
R77,78	R2EDSJ361A	Carbon 360 ohm 1/4W ±5%	2
R17,18, 57,58	R2EDSJ393A	Carbon 39K ohm 1/4W ±5%	4
R05,06, 45,46	R2EDSJ432A	Carbon 4.3K ohm 1/4W ±5%	4
R33,34	R2EDSJ471A	Carbon 470 ohm 1/4W ±5%	2
R73,74	R2EDSJ511A	Carbon 510 ohm 1/4W ±5%	2
R29,30	R2EDSJ681A	Carbon 680 ohm 1/4W ±5%	2
R09,10, 49,50	R2EDSJ682A	Carbon 6.8K ohm 1/4W ±5%	4
R69,70	R2EDSJ751A	Carbon 750 ohm 1/4W ±5%	2

PARTS LIST

Ref. No.	Part No.	Description	Q'ty
TONE BASS ASSY			
75	131 0 4001 59400	Tone bass PCB assy	1
	4 2229 24450	VR 100K MN, Balance	1
	4 2319 33770	Switch Rotary, Bass	2
	4 2319 33780	Switch Rotary, Loudness	1
	4 2379 21340	Connector 1P	14
	4 2379 21360	Terminal, Mode, Volume	2
	4 2379 21380	Connector 5P, Bass	2
C19,20, 45,46	C1HFAJ124A--	Mylar 0.12MF 50V ±5%	4
C17,18, 43,44	C1HFAJ224A--	Mylar 0.22MF 50V ±5%	4
C25,26, 51,52	C1HFAJ333A--	Mylar 0.033MF 50V ±5%	4
C09,10, 35,36	C1HFAJ393A--	Mylar 0.039MF 50V ±5%	4
C01,02, 27,28	C1HFAJ394A--	Mylar 0.39MF 50V ±5%	4
C23,24, 49,50	C1HFAJ473A--	Mylar 0.047MF 50V ±5%	4
C05,06, 31,32	C1HFAJ563A--	Mylar 0.056MF 50V ±5%	4
C21,22, 47,48	C1HFAJ683A--	Mylar 0.068MF 50V ±5%	4
C53,54, 55,56, 57,58, 59,60, 61,62, 63,64, 65,66, 67,68, 69,70	C1HFAK102A--	Mylar 0.001MF 50V ±10%	
C73,74, 75,76, 77,78, 79,80, 81,82, 83,84, 85,86, 87,88, 89,90	C1HFAK333A--	Mylar 0.033MF 50V ±10%	18
C71,72	C1HSBJ501A--	Styrol 500PF 50V ±5%	2
C11,12, 13,14, 37,38, 39,40	C1VTRK105A--	Tantal 1MF 35V ±10%	8
C15,16, 41,42	C1VTRK155A--	Tantal 1.5MF 35V ±10%	4
C03,04, 29,30	C1VTRK474A--	Tantal 0.47MF 35V ±10%	4
C07,08, 33,34	C1VTRK684A--	Tantal 0.68MF 35V ±10%	4
R43,44, 45,46, 47,48, 49,50, 51,52, 53,54, 55,56, 57,58, 59,60, 61,62	R2BDPJ472A	Carbon 4.7K ohm 1/8W ±5%	20
R63,64	R2BDPJ822A	Carbon 8.2K ohm 1/8W ±5%	2
R41,42	R2EDSJ102A	Carbon 1K ohm 1/4W ±5%	2
R13,14	R2EDSJ113A	Carbon 11K ohm 1/4W ±5%	2
R25,26	R2EDSJ152A	Carbon 1.5K ohm 1/4W ±5%	2
R15,16	R2EDSJ183A	Carbon 18K ohm 1/4W ±5%	2
R23,24	R2EDSJ272A	Carbon 2.7K ohm 1/4W ±5%	2
R17,18	R2EDSJ273A	Carbon 27K ohm 1/4W ±5%	2
R29,30	R2EDSJ331A	Carbon 330 ohm 1/4W ±5%	2
R19,20	R2EDSJ393A	Carbon 39K ohm 1/4W ±5%	2
R21,22, 11,12	R2EDSJ432A	Carbon 4.3K ohm 1/4W ±5%	4
R01,02, 03,04, 05,06, 07,08, 09,10, 31,32, 33,34, 35,36, 37,38, 39,40	R2EDSJ474A	Carbon 470K ohm 1/4W ±5%	20
R27,28	R2EDSJ681A	Carbon 680 ohm 1/4W ±5%	2
R65,66, 67,68, 69,70, 71,72, 73,74, 75,76, 77,78, 79,80, 81,82	R2EDUJ223A	Carbon 22K ohm 1/4W ±5%	18
	131 2 4006 05900	Wire assy 1P, Tone treble PCB L-1	1
	131 2 4006 05901	Wire assy 1P, Tone treble PCB R-2	1
ACCESSORIES			
	131 0 4004 13200	Wire shield assy	1
	131 6 2119 00250	Bag polyehtylene exp	1
	131 6 2719 10400	Bag fan	1
	131 6 4119 40302	Explanatory booklet	1

TONE TREBLE PCB ASSY





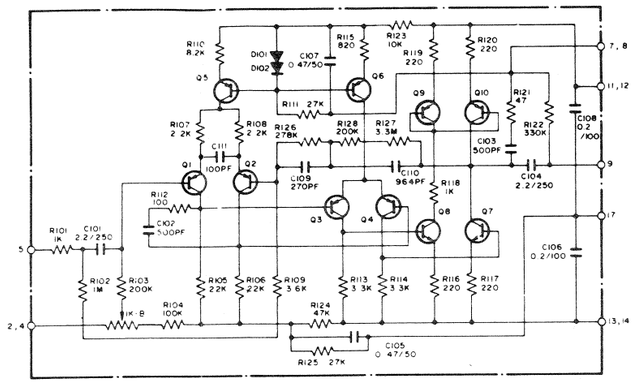
C653 ~ 670 — 0.001
C673 ~ 690 — 0.033
R643 ~ 662 — 4.7K

R601 ~ 610	470K
R631 ~ 640	470K
R611 , 612 , 621 , 622	4.3K
R613 , 614	11K
R615 , 616	18K
R617 , 618	27K
R619 , 620	39K
R623 , 624	2.7K
R625 , 626	1.5K
R627 , 628	680
R629 , 630	330

C601 , 602 , 627 , 628	0.39
C603 , 604 , 629 , 630	0.47/35
C605 , 606 , 631 , 632	0.056
C607 , 608 , 633 , 634	0.68/35
C609 , 610 , 635 , 636	0.039
C611 ~ 614 , 637 ~ 640	1.0/35
C615 , 616 , 641 , 642	1.5/35
C617 , 618 , 643 , 644	0.22
C619 , 620 , 645 , 646	0.12
C621 , 622 , 647 , 648	0.068
C623 , 624 , 649 , 650	0.047
C625 , 626 , 651 , 652	0.033

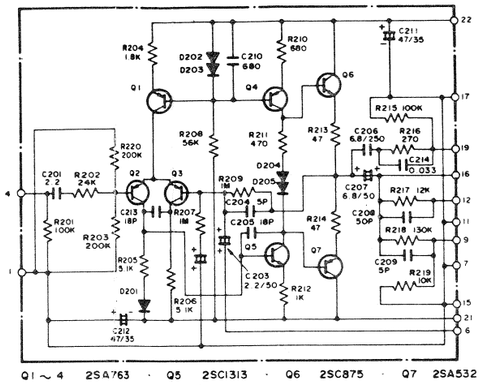
SCHEMATIC DIAGRAM

EQUALIZATION AMP
131-0-4001-59100



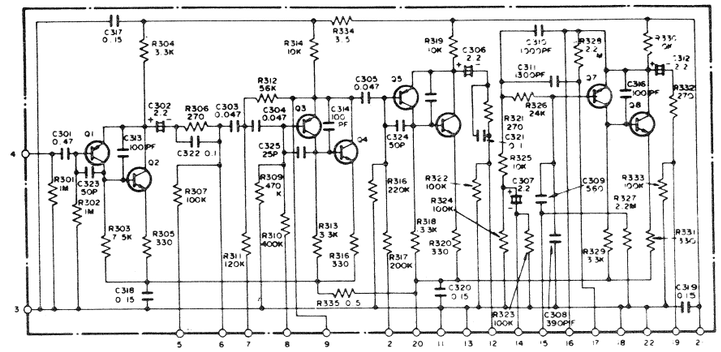
Q1 ~ 4 2SA620 WLH · Q5, 6 2SA628 · Q7, 8 2SC1452 · Q9, 10 2SA810
D101, 102 DS-430

TONE CONTROL AMP
131-0-4001-59600



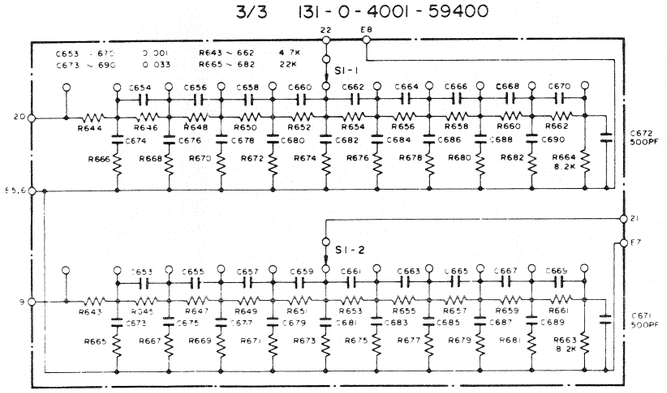
Q1 ~ 4 2SA763 · Q5 2SC1313 · Q6 2SC875 · Q7 2SA532

FILTER AMPLIFIER
131-0-4001-59300

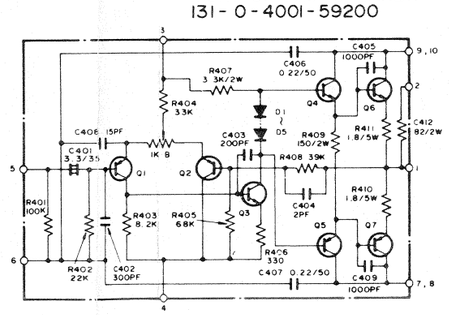


Q1, 3, 5, 7 2SA763 · Q4, 6, 8 2SC1313 · Q2 2SC875

LOUDNESS R/C NETWORK
3/3 131-0-4001-59400

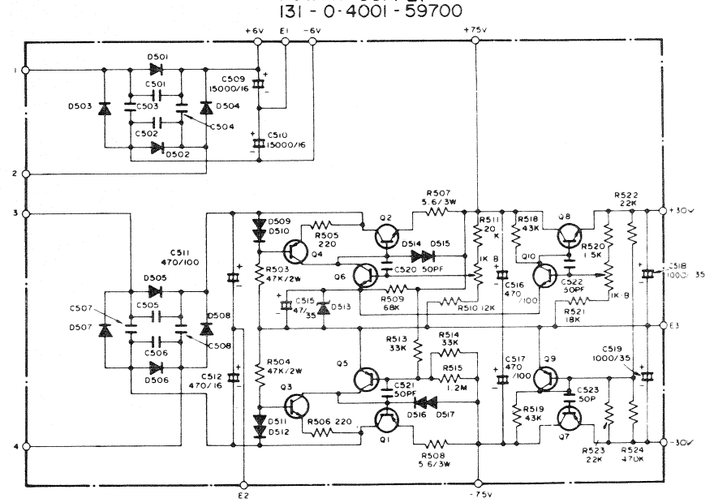


MONITOR AMP SPEAKER
131-0-4001-59200



Q1, 2 2SA763 · Q3 2SC875 · Q4 2SC1313
Q5 2SA726 · Q6 2SD315 · Q7 2SB509
D1 ~ 5 DS-430

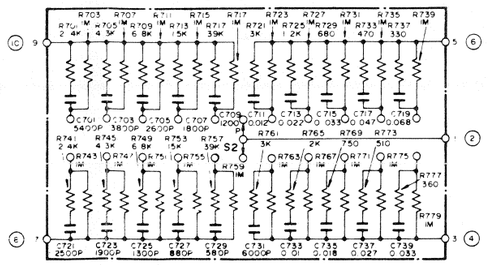
POWER SUPPLY
131-0-4001-59700



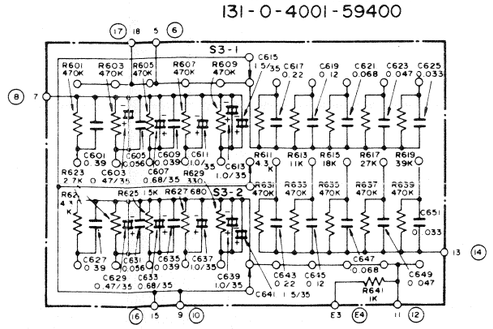
Q1 2SA765 · Q2 2SC1445 · Q3, 10 2SC875 · Q4, 9 2SA532
Q5 2SA810 · Q6 2SC875 · Q7 2SB509 · Q8 2SD315

D501 ~ 504 IN4002 · D505 ~ 508 IN4004 · D509 ~ 512 DS-430
D513 BZ-260 · D514 ~ 517 DS-430

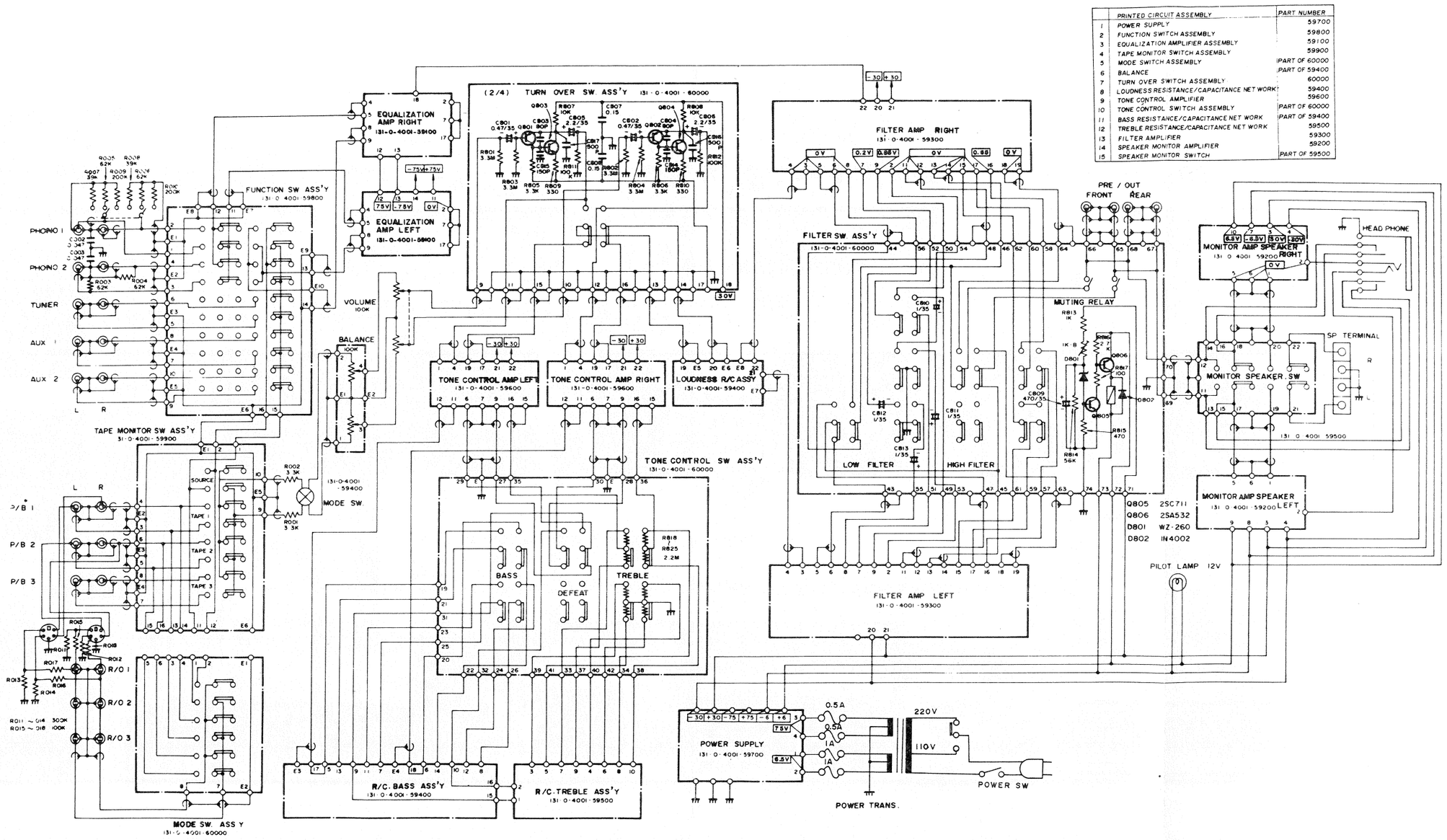
TREBLE R/C NETWORK
131-0-4001-59500



BASS R/C NETWORK
131-0-4001-59400

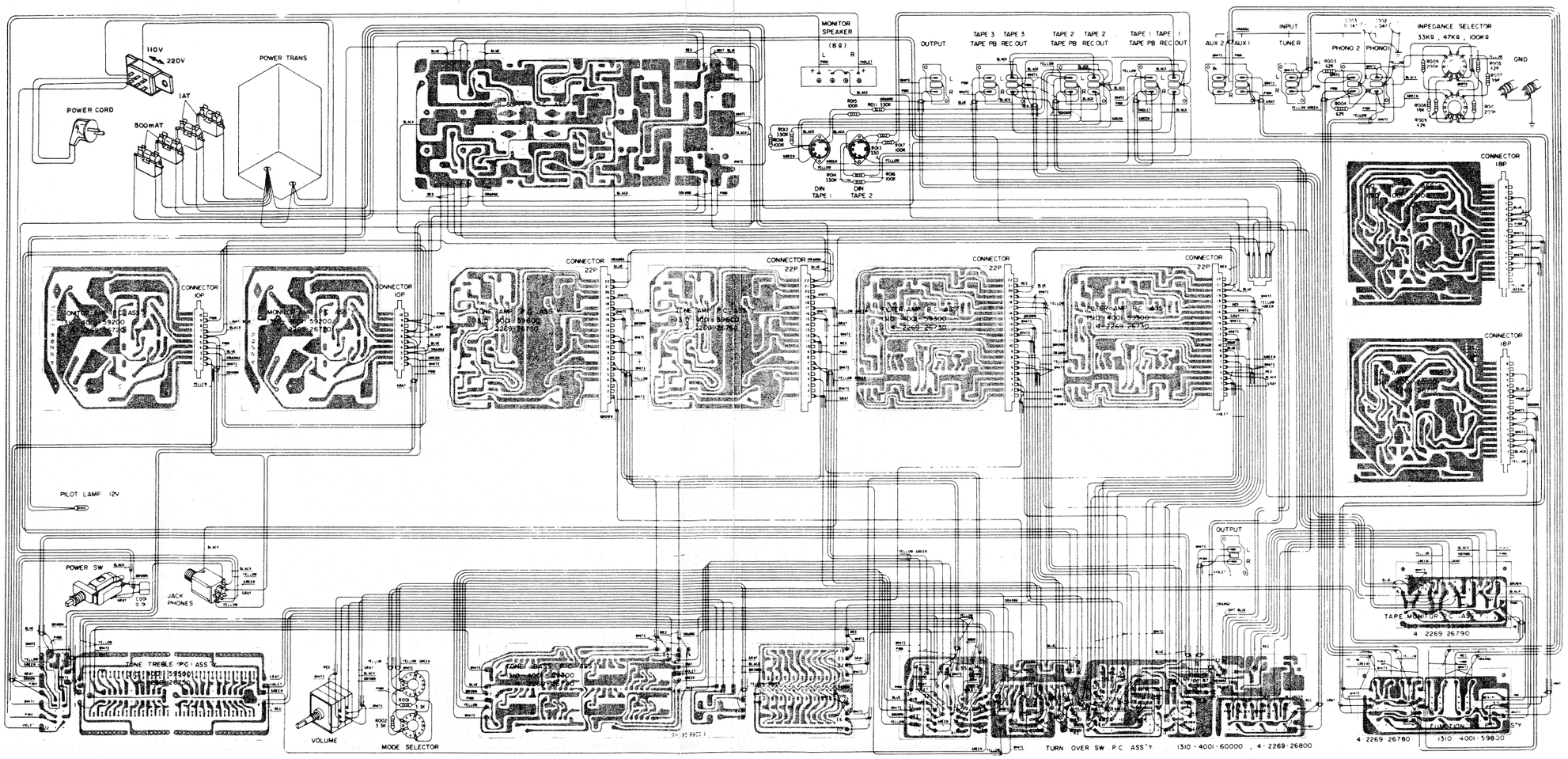


S1 : LOUDNESS CONTROL (4-2319-33780)
S2 : TREBLE CONTROL (4-2319-33760)
S3 : BASS CONTROL (4-2319-33770)



	PRINTED CIRCUIT ASSEMBLY	PART NUMBER
1	POWER SUPPLY	59700
2	FUNCTION SWITCH ASSEMBLY	59800
3	EQUALIZATION AMPLIFIER ASSEMBLY	59100
4	TAPE MONITOR SWITCH ASSEMBLY	59900
5	MODE SWITCH ASSEMBLY	(PART OF 60000
6	BALANCE	(PART OF 59400
7	TURN OVER SWITCH ASSEMBLY	60000
8	LOUDNESS RESISTANCE/CAPACITANCE NET WORK	59400
9	TONE CONTROL AMPLIFIER	59600
10	TONE CONTROL SWITCH ASSEMBLY	(PART OF 60000
11	BASS RESISTANCE/CAPACITANCE NET WORK	(PART OF 59400
12	TREBLE RESISTANCE/CAPACITANCE NET WORK	59500
13	FILTER AMPLIFIER	59300
14	SPEAKER MONITOR AMPLIFIER	59200
15	SPEAKER MONITOR SWITCH	(PART OF 59500

WIRING DIAGRAM



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OSAKA, JAPAN

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